

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS) Issue date: 5/21/2025 Revision date: 5/21/2025 Version: 1.0

SECTION 1 Identification			
1.1. Product identifier			
Product form Product name	: Mixture : TRISTEL OPH ACTIVATOR SOLUTION		
1.2. Other means of identification			
No additional information available			
1.3. Recommended use of the chemical and	d restrictions on use		
Restrictions on use	: Uses other than the intended use of the product.		
1.4. Supplier's details			
Manufacturer Tristel Solutions Limited Unit 1B Lynx Business Park Fordham Road Newmarket, Cambridgeshire, CB8 7NY United Kingdom T +44 (0) 1638 721500 SDS@tristel.com	Distributor Tristel Inc. 75 State Street Boston, MA 02109, Massachusetts USA T +1 857-557-8023 mail-us@tristel.com		
1.5. Emergency phone number			
Emergency number	: If over-exposure occurs call your Poison Center at 1-800-222-1222 or go to poisonhelp.org		
SECTION 2 Hazard Identification			
2.1. Classification of the substance or mixt	ture		
GHS US classification			
Not classified			
2.2. Label elements			
GHS US labeling No labeling applicable			
2.3. Hazards associated with known or reas	sonably anticipated uses		
No additional information available			
2.4. Hazards not otherwise classified			
No additional information available			
2.5. Unknown acute toxicity			
No additional information available			

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SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
1-DECANAMINE,N,N-DIMETHYL-N-OXIDE	CAS-No.: 2605-79-0	<1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
SODIUM CHLORITE 100%	CAS-No.: 7758-19-2	<1	Ox. Sol. 1, H271 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

I.1. Description of necessary first-aid I	neasures			
First-aid measures general	: If you feel unwell, seek medical advice.			
First-aid measures after inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. 			
First-aid measures after skin contact	: Wash skin with plenty of water.			
First-aid measures after eye contact	: Rinse eyes with water as a precaution.			
First-aid measures after ingestion	: Rinse mouth out with water. Call a poison center/doctor/physician if you feel unwell.			
Personal protection for first-aid responders.	: First aid workers will be equipped with suitable personal protective equipment.			
4.2. Most important symptoms/effects,	acute and delayed			
Symptoms/effects after inhalation	: May cause respiratory irritation.			
Symptoms/effects after skin contact	: May cause moderate irritation.			
Symptoms/effects after eye contact	: May cause eye irritation.			
Symptoms/effects after ingestion	May cause irritation to the digestive tract.			

Other medical advice or treatment

: Treat symptomatically.

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishin	ng media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the che	mical
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

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5.3. Special protective equipment and precautions for fire-fighters Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. SECTION 6 Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures For non-emergency personnel : Ventilate spillage area.

For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Methods and materials for containment and cleaning up			
For containment Methods for cleaning up Other information	 Absorb spilled material with sand or earth. Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site. 		

For further information refer to section 13

SECTION 7 Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	cluding incompatibilities
Storage conditions Storage temperature Specific end uses	 Store in a ventilated area out of direct sunlight. 15 – 25 °C (59 - 77°F) To be used with Tristel OPH Base solution. For professional use only.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls	
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

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Eye protection: Safety glasses Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Ensure there is sufficient ventilation of the area during use.

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless
Odor	: odorless
Odor threshold	: No data available
рН	: 10.3-11.3
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.000-1.010
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information 11.1. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (dermal) Not classified · Acute toxicity (inhalation) Not classified · TRISTEL OPH ACTIVATOR SOLUTION LD50 oral rat > 2000 mg/kg LC50 Inhalation - Rat > 5.61 mg/l SODIUM CHLORITE 100% (7758-19-2) ATE US (oral) 100 mg/kg body weight ATE US (dermal) 50 mg/kg body weight 1-DECANAMINE, N, N-DIMETHYL-N-OXIDE (2605-79-0) LD50 oral rat 300 - 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method) LD50 oral 300 - 2000 mg/kg LD50 dermal rat > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) ATE US (oral) 500 mg/kg body weight Skin corrosion/irritation OECD 404 Slight erythema - Slight irritant pH: 10.3-11.3 Not classified Serious eye damage/irritation pH: 10.3-11.3 Respiratory or skin sensitization : Not a skin sensitizer - ISO 10993-10 Germ cell mutagenicity Non-Mutagenic - OECD 471 · : Not classified Carcinogenicity SODIUM CHLORITE 100% (7758-19-2)

IARC group	3 - Not Classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

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SODIUM CHLORITE 100% (7758-19-2)				
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.			
1-DECANAMINE,N,N-DIMETHYL-N-OXIDE (2605-79-0)				
NOAEL (oral,rat,90 days)	40 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:			
Aspiration hazard	: Not classified			
Symptoms/effects after inhalation	: May cause respiratory irritation.			
Symptoms/effects after skin contact	: May cause moderate irritation.			
Symptoms/effects after eye contact	: May cause eye irritation.			
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.			

SECTION 12 Ecological information			
12.1. Ecotoxicity			
	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.		
Hazardous to the aquatic environment, short-term : (acute)	Not classified		
	Not classified		
SODIUM CHLORITE 100% (7758-19-2)			
LC50 - Fish [1]	265 – 310 mg/l		
EC50 - Other aquatic organisms [1]	0.29 mg/l		
1-DECANAMINE,N,N-DIMETHYL-N-OXIDE (260)5-79-0)		
LC50 - Fish [1]	134 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
EC50 - Crustacea [1]	10.4 mg/l Test organisms (species): Daphnia magna		
LC50 - Fish [2]	31.8 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
EC50 - Crustacea [2]	3.1 mg/l Test organisms (species): Daphnia magna		
NOEC (chronic)	0.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC chronic fish	0.42 mg/l		
12.2. Persistence and degradability			
TRISTEL OPH ACTIVATOR SOLUTION			
Persistence and degradability	Biodegradability in water: no data available.		
SODIUM CHLORITE 100% (7758-19-2)			
Persistence and degradability	Biodegradability in water: no data available.		
1-DECANAMINE,N,N-DIMETHYL-N-OXIDE (260)5-79-0)		
Persistence and degradability	Rapidly degradable		
Biodegradation	97 %		
12.3. Bioaccumulative potential			

No additional information available

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12.4. Mobility in soil			
No additional information available			
12.5. Other adverse effects			
Ozone Fluorinated greenhouse gases	: Not classified : No		
SECTION 13 Disposal consider	ations		

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number		
UN-No. (DOT) UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	 Not applicable Not applicable Not applicable Not applicable 	
14.2. UN Proper Shipping Name		
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not applicable Not applicable Not applicable Not applicable 	
14.3. Transport hazard class(es)		
DOT Transport hazard class(es) (DOT)	: Not applicable	
TDG Transport hazard class(es) (TDG)	: Not applicable	
IMDG Transport hazard class(es) (IMDG)	: Not applicable	
IATA Transport hazard class(es) (IATA)	: Not applicable	
14.4. Packing group		
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 Not applicable Not applicable Not applicable Not applicable Not applicable 	
14.5. Environmental hazards		
Other information	: No supplementary information available.	

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14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not applicable

TDG

Not applicable

IMDG

Not applicable

ΙΑΤΑ

Not applicable

SECTION 15 Regulatory information

15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
SODIUM CHLORITE 100%	7758-19-2	Present		
1-DECANAMINE,N,N-DIMETHYL-N-OXIDE	2605-79-0	Not present	-	

15.2. International regulations

CANADA

SODIUM CHLORITE 100% (7758-19-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

SODIUM CHLORITE 100% (7758-19-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

No additional information available

SECTION 16 Other information

according to 29 CFR § 1910.1200,	Hazard Communication Standard (HCS)
Revision date	: 5/21/2025
Issue date	: 5/21/2025

Full text of hazard	Full text of hazard classes and H-statements	
H271	May cause fire or explosion; strong oxidizer	
H301	Toxic if swallowed	

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Full text of I	Full text of hazard classes and H-statements	
H302	Harmful if swallowed	
H310	Fatal in contact with skin	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H373	May cause damage to organs through prolonged or repeated exposure	
H400	Very toxic to aquatic life	
H411	Toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Tristel

TRISTEL OPH BASE SOLUTION

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS) Issue date: 5/21/2025 Revision date: 5/21/2025 Version: 1.0

1.1. Product identifier Product form Mixture TRISTEL OPH BASE SOLUTION 1.2. Other means of identification Image: Solution information available 1.3. Recommended use of the chemical and restrictions on use Restrictions on use 1.4. Supplier's details Image: Solution I information available Manufacturer Distributor Tristel Solutions Limited Tristel Inc. Unit 18 75 Lynx Business Park State Street Fordmam Road Bostorio, Ma 02100, Massachusetts Newmarket, Cambridgeshrie, CB8 7NY USA United Kingdom T +1857-557-8023 T +44 (0) f383 721500 mail-us@stristel.com SECTION 2 Hazard Identification If over-exposure occurs call your Poison Center at 1-800-222-1222 or go to poisonhelp.or SECTION 2 Hazard Identification If over-exposure occurs call your Poison Center at 1-800-222-1222 or go to poisonhelp.or SECTION 2 Hazard Identification If over-exposure occurs call your Poison Center at 1-800-222-1222 or go to poisonhelp.or SECTION 2 Hazard Identification If over-exposure occurs call your Poison Center at 1-800-222-1222 or go to poisonhelp.or SECTION 2 Hazard Identification Image: Image: Image: Image: Image:		
Product name : TRISTEL OPH BASE SOLUTION 1.2. Other means of identification Ne additional information available 1.3. Recommended use of the chemical and restrictions on use 1.3. Recommended use of the chemical and restrictions on use Restrictions on use : Uses other than the intended use of the product. 1.4. Supplier's details Manufacturer Tristel for Tristel	1.1. Product identifier	
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Restrictions on use : Uses other than the intended use of the product. 1.4. Supplier's details Manufacturer Distributor Tristel Inc. Unit 18 75 Lynx Business Park SILE Street Fordham Road Boston, MA 02109, Massachusetts Newmarket, Cambridgeshire, CB8 7NY USA United Kingdom T +1 857-557-8023 T +1 8	No additional information available	
A. Supplier's details Distributor Manufacturer Distributor Tristel Solutions Limited Tristel Inc. Unit 18 75 Lynx Business Park State Street Fordham Road Boston, MA 02109, Massachusetts Newmarket, Cambridgeshire, CB8 7NY USA Newmarket, Cambridgeshire, CB8 7NY USA United Kingdom T +1 87-557-8023 T +4 (0) 1638 721500 mail-us@tristel.com SDS@ttristel.com SDS@ttristel.com SDS@ttristel.com SDS@ttristel.com SDS@ttristel.com setter the street the	1.3. Recommended use of the chemical	and restrictions on use
Manufacturer Distributor Tristel Solutions Limited Tristel Inc. Tristel Solutions Limited 75 Unit 18 75 State Street State Street Fordham Road Boston, MA 02109, Massachusetts Newmarket, Cambridgeshire, CB8 7NY USA United Kingdom T +1 857-557-8023 T +44 (0) 1638 721500 mail-us@tristel.com SDS@tristel.com mail-us@tristel.com SECTION 2 Hazard Identification SECTION 2 Hazard Identification state Street Section of the substance or mixture GHS US classification state Street Not classified 2.1. Lassification state Street Section 2 Hazard Identification Ref US classification state Street Not classified 2.2. Label elements GHS US labeling No labeling applicable Zandas associated with known or reasonably anticipated uses No additional information available Z.4. Hazards not otherwise classified No additional information available	Restrictions on use	: Uses other than the intended use of the product.
Tristel Solutions Limited Tristel Inc. Unit 18 75 Lynx Business Park 516 Fordham Road 516 Newmarket, Cambridgeshire, CB8 7NY USA United Kingdom 7 +1 857-557-8023 T +44 (0) 1638 721500 SDS@tristel.com SD	1.4. Supplier's details	
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GHS US labeling No labeling applicable 2.3. Hazards associated with known or reasonably anticipated uses No additional information available 2.4. Hazards not otherwise classified No additional information available		
No labeling applicable 2.3. Hazards associated with known or reasonably anticipated uses No additional information available 2.4. Hazards not otherwise classified No additional information available		
2.3. Hazards associated with known or reasonably anticipated uses No additional information available 2.4. Hazards not otherwise classified No additional information available		
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No additional information available		
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SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
CITRIC ACID MONOHYDRATE	CAS-No.: 5949-29-1	1 - 10	Eye Irrit. 2, H319 STOT SE 3, H335
1-DECANAMINE,N,N-DIMETHYL-N-OXIDE	CAS-No.: 2605-79-0	<1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures		
4.1. Description of necessary first-aid mea	isures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion Personal protection for first-aid responders.	 If you feel unwell, seek medical advice. Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse eyes with water as a precaution. Call a poison center/doctor/physician if you feel unwell. First aid workers will be equipped with suitable personal protective equipment. 	
4.2. Most important symptoms/effects, acu	ute and delayed	
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 May cause respiratory irritation. May cause moderate irritation. May cause eye irritation. May cause irritation to the digestive tract. 	
4.3. Indication of immediate medical attention and special treatment needed, if necessary		
Other medical advice or treatment	: Treat symptomatically.	
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chemical		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and pred	cautions for fire-fighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

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according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

SECTION 6 Accidental release measu	ires
6.1. Personal precautions, protective equ	ipment and emergency procedures
For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Environmental precautions	: Avoid release to the environment.
6.2. Methods and materials for containme	nt and cleaning up
For containment Methods for cleaning up Other information	 Absorb spilled material with sand or earth. Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site.
For further information refer to section 13	

SECTION 7 Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, i	ncluding incompatibilities	
Storage conditions	: Store in a ventilated area out of direct sunlight.	
Storage temperature	: 15 – 25 °C (59 - 77°F)	
Specific end uses	: To be used with Tristel OPH Activator solution. For professional use only.	

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Ensure there is sufficient ventilation of the area during use.

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: Blue.
Odor	: characteristic
Odor threshold	: No data available
рН	: 2.0-3.0
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.020-1.030
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11.1. Information on toxicological ef	fects
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : Not classified
TRISTEL OPH BASE SOLUTION	
LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 5.24 mg/l
CITRIC ACID MONOHYDRATE (5949	J-29-1)
LD50 oral rat	11700 mg/kg
LD50 dermal rat	> 2000 mg/kg
1-DECANAMINE,N,N-DIMETHYL-N-C)XIDE (2605-79-0)
LD50 oral rat	300 – 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 oral	300 – 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
ATE US (oral)	500 mg/kg body weight
Skin corrosion/irritation	: Primary Irritation Index (PII) = 0.3 - Slightly irritating pH: 2.0-3.0
Serious eye damage/irritation	: The maximum average score of 22.0 was obtained 1 hour after treatment according to OCSPI 870.2400 and OECD 405 guidelines - Mildly irritating
Respiratory or skin sensitization	pH: 2.0-3.0 : Not a skin sensitizer – OCSPP 870.2600/OECD 429
Germ cell mutagenicity	 No data available to indicate product or any components present greater than 0.1% are mutagenetic or genotoxic.
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
CITRIC ACID MONOHYDRATE (5949)-29-1)
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
1-DECANAMINE,N,N-DIMETHYL-N-C)XIDE (2605-79-0)
NOAEL (oral,rat,90 days)	40 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dos Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:

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Aspiration hazard	Not classified
CITRIC ACID MONOHYDRATE (5949-29-1)	
Viscosity, kinematic	Not applicable
Symptoms/effects after inhalation	May cause respiratory irritation.
Symptoms/effects after skin contact	May cause moderate irritation.
Symptoms/effects after eye contact	May cause eye irritation.
Symptoms/effects after ingestion	May cause irritation to the digestive tract.

SECTION 12 Ecological information

12.1. Ecotoxicity Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Hazardous to the aquatic environment, short-term Not classified : (acute) : Not classified Hazardous to the aquatic environment, long-term (chronic) **CITRIC ACID MONOHYDRATE (5949-29-1)** LC50 - Fish [1] 440 - 706 mg/l 1-DECANAMINE,N,N-DIMETHYL-N-OXIDE (2605-79-0) LC50 - Fish [1] 134 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) EC50 - Crustacea [1] 10.4 mg/l Test organisms (species): Daphnia magna LC50 - Fish [2] 31.8 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

EC50 - Crustacea [2]	3.1 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	0.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.42 mg/l

12.2. Persistence and degradability

TRISTEL OPH BASE SOLUTION		
Persistence and degradability Biodegradability in water: no data available.		
CITRIC ACID MONOHYDRATE (5949-29-1)		
Persistence and degradability	Rapidly degradable	
Biodegradation 97 %		
1-DECANAMINE,N,N-DIMETHYL-N-OXIDE (2605-79-0)		
Persistence and degradability	Rapidly degradable	
Biodegradation	97 %	

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

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according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

according to 29 CFR § 1910.1200, Hazard Communication	n Standard (HCS)
12.5. Other adverse effects	
Ozone Fluorinated greenhouse gases	: Not classified : No
SECTION 13 Disposal considerations	
Regional waste regulation Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations Additional information	 Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal must be done according to official regulations. Disposal must be done according to official regulations. Do not re-use empty containers.
SECTION 14 Transport information	
In accordance with DOT / TDG / IMDG / IATA	
14.1. UN number	
UN-No. (DOT) UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.2. UN Proper Shipping Name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not applicable
TDG Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.

14.6. Transport in bulk

Not applicable

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14.7. Special precautions for user

DOT

Not applicable

TDG Not applicable

IMDG Not applicable

IATA Not applicable

SECTION 15 Regulatory information

15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
CITRIC ACID MONOHYDRATE	5949-29-1	Not present	-	
1-DECANAMINE,N,N-DIMETHYL-N-OXIDE	2605-79-0	Not present	-	

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. State regulations

No additional information available

SECTION 16 Other information

according to 29 CFR § 1910.1200, Haz	ard Communication Standard (HCS)
Revision date	: 5/21/2025
Issue date	: 5/21/2025

Full text of hazard classes and H-statements		
H302	Harmful if swallowed	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H400	Very toxic to aquatic life	
H411	Toxic to aquatic life with long lasting effects	

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Tristel

TRISTEL OPH WORKING SOLUTION

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS) Issue date: 5/21/2025 Revision date: 5/21/2025 Version: 1.0

SECTION 1 Identification	
1.1. Product identifier	
Product form Product name	: Mixture : TRISTEL OPH WORKING SOLUTION
1.2. Other means of identification	
No additional information available	
1.3. Recommended use of the chemical and	nd restrictions on use
Use of the substance/mixture Recommended use Restrictions on use	 Disinfectant Disinfectant Uses other than the intended use of the product.
1.4. Supplier's details	
Manufacturer Tristel Solutions Limited Unit 1B Lynx Business Park Fordham Road Newmarket, Cambridgeshire, CB8 7NY United Kingdom T +44 (0) 1638 721500 SDS@tristel.com	Distributor Tristel Inc. 75 State Street Boston, MA 02109, Massachusetts USA T +1 857-557-8023 mail-us@tristel.com
1.5. Emergency phone number	
Emergency number	: If over-exposure occurs call your Poison Center at 1-800-222-1222 or go to poisonhelp.org
SECTION 2 Hazard Identification 2.1. Classification of the substance or mix	xture
GHS US classification	
Not classified	
2.2. Label elements	
GHS US labeling No labeling applicable	
2.3. Hazards associated with known or re	asonably anticipated uses
No additional information available	
2.4. Hazards not otherwise classified	
No additional information available	
2.5. Unknown acute toxicity	
No additional information available	

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SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
chlorine dioxide %	CAS-No.: 10049-04-4	<1	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures			
4.1. Description of necessary first-aid measures			
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion Personal protection for first-aid responders.	 If you feel unwell, seek medical advice. Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse eyes with water as a precaution. Call a poison center/doctor/physician if you feel unwell. First aid workers will be equipped with suitable personal protective equipment. 		
4.2. Most important symptoms/effects, acute	e and delayed		
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 May cause respiratory irritation. May cause moderate irritation. May cause slight irritation. May cause irritation to the digestive tract. 		
4.3. Indication of immediate medical attention and special treatment needed, if necessary			
Other medical advice or treatment	: Treat symptomatically.		
SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing	media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.		
5.2. Specific hazards arising from the chemical			
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Special protective equipment and preca	utions for fire-fighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

: Wear recommended personal protective equipment.

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Emergency procedures	: Ventilate spillage area.
For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Environmental precautions	: Avoid release to the environment.
6.2. Methods and materials for containm	ent and cleaning up
For containment	: Absorb spilled material with sand or earth.
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

SECTION 7 Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including incompatibilities	
Storage conditions Specific end uses	Store in a well-ventilated place. Keep cool.Disinfectant Solution. For professional use only.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

TRISTEL OPH WORKING SOLUTION	
USA - ACGIH - Occupational Exposure Limits	
Local name	Chlorine dioxide
ACGIH® TLV® C	0.28 mg/m³
	0.1 ppm
Remark (ACGIH)	TLV® Basis: Resp tract irr; pulm edema
ACGIH 2025	
USA - OSHA - Occupational Exposure Limits	
Local name	Chlorine dioxide
OSHA PEL TWA	0.3 mg/m³
	0.1 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	Chlorine dioxide
Cal/OSHA PEL (OEL TWA)	0.3 mg/m³

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	0.1 ppm
Cal/OSHA STEL	0.9 mg/m³
	0.3 ppm
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Lim for Chemical Contaminants (Table AC-1)
JSA - NIOSH - Occupational Exposure Limits	s
_ocal name	Chlorine dioxide
NIOSH REL 10h TWA	0.1 ppm
NIOSH REL STEL	0.3 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
chlorine dioxide % (10049-04-4)	
JSA - ACGIH - Occupational Exposure Limits	5
_ocal name	Chlorine dioxide
ACGIH® TLV® C	0.1 ppm
Remark (ACGIH)	TLV® Basis: Resp tract irr; pulm edema
Regulatory reference	ACGIH 2024
JSA - OSHA - Occupational Exposure Limits	
_ocal name	Chlorine dioxide
OSHA PEL TWA	0.3 mg/m³
	0.1 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
JSA - Cal/OSHA - Occupational Exposure Lir	nits
_ocal name	Chlorine dioxide
Cal/OSHA PEL (OEL TWA)	0.3 mg/m³
	0.1 ppm
Cal/OSHA STEL	0.9 mg/m³
	0.3 ppm
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Lim for Chemical Contaminants (Table AC-1)
JSA - NIOSH - Occupational Exposure Limits	3
_ocal name	Chlorine dioxide
NIOSH REL 10h TWA	0.1 ppm
NIOSH REL STEL	0.3 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
3.2. Appropriate engineering controls	

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8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:	
Avoid contact with skin.	
Eye protection:	
Avoid contact with eyes.	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
Ensure there is sufficient ventilation of the area during use.	

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	•
• • • • •	: yellow
Odor	: characteristic
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: > 93 °C
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

No additional information available

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0.2. Chemical stability
o additional information available
0.3. Possibility of hazardous reactions
o additional information available
0.4. Conditions to avoid
one under recommended storage and handling conditions (see section 7).
0.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11 Toxicological inform	ation
11.1. Information on toxicological effe	ects
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : Not classified
TRISTEL OPH WORKING SOLUTION	
LD50 oral rat	> 2000 mg/kg
chlorine dioxide % (10049-04-4)	
LD50 oral rat	93.86 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral)), Remarks on results: other:, 95% CL: 45,52 - 193,53
LC50 Inhalation - Rat (Vapors)	0.041 mg/l Source: ECHA
ATE US (oral)	100 mg/kg body weight
Skin corrosion/irritation	: OECD 404 Slight erythema - Slight irritan
chlorine dioxide % (10049-04-4)	
рН	<1
Serious eye damage/irritation	: Not classified
chlorine dioxide % (10049-04-4)	
рН	<1
Respiratory or skin sensitization Germ cell mutagenicity	: Not a skin sensitizer - ISO 10993-10 : Non-Mutagenic - OECD 471
Carcinogenicity	: Not classified
Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard	 Not classified Not classified Not classified Not classified
Symptoms/effects after inhalation	: May cause respiratory irritation.

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Symptoms/effects after skin contact	: May cause moderate irritation.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive

SECTION 12 Ecological information	
12.1. Ecotoxicity	
Hazardous to the aquatic environment, short-term : (acute)	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Not classified
Hazardous to the aquatic environment, long-term : (chronic)	
chlorine dioxide % (10049-04-4)	
LC50 - Fish [1]	75 mg/l Test organisms (species): Cyprinodon variegatus
EC50 - Crustacea [1]	0.063 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	0.021 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 72h - Algae [1]	1096 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.324 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 500 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 500 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '36 d'

tract.

12.2. Persistence and degradability

TRISTEL OPH WORKING SOLUTION		
Persistence and degradability Biodegradability in water: no data available.		
chlorine dioxide % (10049-04-4)		
Persistence and degradability	Biodegradability in water: no data available.	
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects		

Ozone Fluorinated greenhouse gases

- : Not classified : No
- SECTION 13 Disposal considerations

 Regional waste regulation
 : Disposal must be done according to official regulations.

 Waste treatment methods
 : Dispose of contents/container in accordance with licensed collector's sorting instructions.

 Sewage disposal recommendations
 : Disposal must be done according to official regulations.

 Product/Packaging disposal recommendations
 : Disposal must be done according to official regulations.

 : Disposal must be done according to official regulations.
 : Disposal must be done according to official regulations.

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Additional information

: Do not re-use empty containers.

SECTION 14 Transport information	
In accordance with DOT / TDG / IMDG / IATA	
14.1. UN number	
UN-No. (DOT) UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.2. UN Proper Shipping Name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not applicable
TDG Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 Not applicable Not applicable Not applicable Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Transport in bulk	
Not applicable	
14.7. Special precautions for user	
DOT Not applicable	
TDG Not applicable	
IMDG Not applicable	
IATA Not applicable	

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

SECTION 15 Regulatory information

15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
chlorine dioxide %	10049-04-4	Not present	-	

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. State regulations

No additional information available

SECTION 16 Other information			
according to	29 CFR § 1910.1200, Hazard Communication Standard (HCS)		
Revision date	5/21/2025		
Issue date	: 5/21/2025		
Full text of	hazard classes and H-statements		
H301	Toxic if swallowed		
H314	Causes severe skin burns and eye damage		
H400	Very toxic to aquatic life		

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.